

What is claimed is:

1. A sheet conveying apparatus comprising:
a conveying means for conveying a sheet to a prescribed position;
a pair of reverse-discharge rotating members capable of rotating forward and reverse for feeding the sheet to the conveying means by switchback; and
an electricity removal means for removing electricity from the conveyed sheet;
wherein the switchback serves to feed a sheet having a maximum conveyable length from the pair of reverse-discharge rotating members to the conveying means; and
wherein the electricity removal means is arranged nearer toward a sheet discharging direction than a cross over position for a front edge of the sheet and a back edge of the sheet during discharge of the sheet after having passed the prescribed position, and passed the pair of reverse-discharge rotating members again.
2. The sheet conveying apparatus according to claim 1, wherein the electricity removal means and the pair of reverse-discharge rotating members have a secondary electricity removal means arranged therebetween.
3. The sheet conveying apparatus according to claim 1 or claim 2, wherein the electricity removal means is arranged above a conveyed sheet.
4. The sheet conveying apparatus according to claim 1 or claim 2, wherein the electricity removal means is arranged below a conveyed sheet.
5. An image reading apparatus for conveying a sheet and for reading an image written on the sheet, the image reading apparatus comprising:

the sheet conveying apparatus described in any one of claim 1 through claim 4; and

a reading means for reading an image at a prescribed position of the sheet conveying apparatus.

6. An original document processing apparatus comprising:

a conveying means for conveying an original document to an original document reading position;

a pair of reverse-discharge rotating members capable of rotating forward and reverse for feeding the original document to the conveying means by switchback, and discharging the original document conveyed from the conveying means; and

an electricity removal means for removing electricity from the conveyed sheet;

wherein the switchback serves to feed an original document from the pair of reverse-discharge rotating members to the conveying means; and

wherein the electricity removal means is arranged nearer toward an original document discharging direction than a cross over position for a front edge of the sheet and a back edge of the original document, when the original document is passed through the prescribed position in an upside-down manner, in a case where the original document subject of being conveyed by the original document processing apparatus is of a maximum conveyable length.

7. The original document processing apparatus according to claim 6,

wherein a distance of starting from the pair of reverse-discharge rotating members, passing the original document reading position, and returning back to the pair of reverse-discharge rotating members is made

shorter than the maximum conveyable length; and

wherein the original document cross over position is arranged between the reverse-discharge rotating members and the electricity removal means.